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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 13-08-19

Lab ID	:	CP-2019-11-07-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-07-07**	**Date: 06-09-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.	
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.	
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-08-19	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	09-08-19	
Environmental Conditions during test	:	Temperature:	26°C
		Humidity:	72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-07-07** **Date: 13-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-07-07** **Date: 13-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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Lab ID	:	**CP-2019-11-07-07** **Date: 13-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-07-07** **Date: 13-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-11-07-07 **Date: 13-08-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-07-07**

Date: 13-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-09-19

Lab ID	:	**CP-2019-11-07-07**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-19
Sample Type /Size	:	Precast Cover Slab(250 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	01/09/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-11-07-07** **Date: 04/09/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/08/2019	04/09/2019	149.12 X 151.91 X 151.15	22653	8.744	277.2	12.2	12.2
2	PCC	M15	28/08/2019	04/09/2019	151.56 X 151.38 X 151 86	22942	8.192	281.1	12.3	
3	PCC	M15	28/08/2019	04/09/2019	151.14 X 150.77 X 150.39	22787	8.869	273.9	12.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 25/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/08/2019	25/09/2019	150.67 X 149.37 X 151.68	22507	8.593	404.5	18.0	17.7
2	PCC	M15	28/08/2019	25/09/2019	151.80 X 149.06 X 150.31	22628	8.857	387.3	17.1	
3	PCC	M15	28/08/2019	25/09/2019	149.56 X 149.06 X 150.84	22293	8.398	398.7	17.9	

Note:
The results pertain to the samples received and tested.
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Authorized Signatory
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/09/2019

Lab ID	:	**CP-2019-11-07-07**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/08/2019	04/09/2019	149.64 X 150.55 X 151.77	22527	8.744	279.2	12.4	12.5
2	PCC	M15	28/08/2019	04/09/2019	149.80 X 151.10 X 151.46	22635	8.192	278.5	12.3	
3	PCC	M15	28/08/2019	04/09/2019	149.93 X 150.46 X 149.30	22559	8.869	292.1	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/09/2019

Lab ID	:	CP-2019-11-07-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/08/2019	25/09/2019	150.88 X 149.68 X 149.51	22583	8.593	398.1	17.6	17.4
2	PCC	M15	28/08/2019	25/09/2019	150.80 X 150.70 X 150.47	22726	8.857	390.0	17.2	
3	PCC	M15	28/08/2019	25/09/2019	149.06 X 151.05 X 150.78	22515	8.398	393.1	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/09/2019

Lab ID	:	CP-2019-11-07-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.73 X 149.45 X 150.13	22526	8.804	572.3	25.4	25.4
2	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.40 X 150.01 X 149.80	22562	8.945	599.7	26.6	
3	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.50 X 149.56 X 149.88	22509	8.159	546.9	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-07-07** **Date: 01/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	150.82 X 150.76 X 149.27	22738	8.722	772.1	34.0	33.4
2	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	151.67 X 150.13 X 150.86	22769	8.375	746.9	32.8	
3	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	149.23 X 149.63 X 149.36	22329	8.525	746.4	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/09/2019

Lab ID	:	CP-2019-11-07-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.09 X 150.65 X 151.45	22611	8.804	583.8	25.8	25.6
2	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	151.56 X 149.09 X 149.59	22597	8.945	605.5	26.8	
3	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	151.84 X 149.61 X 149.73	22716	8.159	546.1	24.0	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 01/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	149.62 X 151.05 X 149.05	22601	8.722	753.7	33.3	33.2
2	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	150.45 X 149.64 X 149.65	22513	8.375	737.2	32.7	
3	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	151.39 X 151.18 X 149.20	22887	8.525	763.6	33.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07

Date: 10/09/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	151.00 X 150.08 X 151.82	22662	8.804	584.6	25.8	25.5
2	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	149.23 X 150.60 X 151.38	22475	8.945	589.2	26.2	
3	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	149.57 X 150.94 X 149.28	22577	8.159	555.9	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 01/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	151.69 X 150.75 X 151.54	22867	8.722	774.7	33.9	33.0
2	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	150.04 X 151.41 X 150.70	22717	8.375	729.1	32.1	
3	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	150.95 X 151.36 X 151.52	22847	8.525	755.2	33.1	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 10/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.49 X 151.69 X 151.70	22829	8.804	571.9	25.1	25.2
2	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	151.94 X 151.78 X 149.02	23062	8.945	610.5	26.5	
3	Cement Concrete Pavement	M30	03/09/2019	10/09/2019	150.76 X 151.25 X 149.28	22802	8.159	547.8	24.0	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 01/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	149.10 X 150.08 X 149.60	22378	8.722	742.1	33.2	32.9
2	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	151.56 X 151.85 X 151.76	23014	8.375	740.0	32.2	
3	Cement Concrete Pavement	M30	03/09/2019	01/10/2019	151.86 X 151.97 X 150.94	23079	8.525	769.0	33.3	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 13/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	149.07 X 151.37 X 149.67	22564	8.804	574.3	25.4	25.4
2	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	149.15 X 149.42 X 149.84	22286	8.945	588.8	26.4	
3	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	151.68 X 151.57 X 151.02	22990	8.859	560.1	24.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2019-11-07-07**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2019

Date: 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	150.34 X 150.52 X 149.29	22629	8.722	752.1	33.2	33.0
2	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	149.93 X 150.54 X 151.28	22570	8.375	733.3	32.5	
3	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	150.53 X 151.20 X 150.48	22760	8.525	759.7	33.4	

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R.KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 13/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	151.75 X 150.05 X 151.13	22769	8.804	588.9	25.9	25.7
2	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	151.61 X 151.56 X 151.16	22977	8.945	611.2	26.6	
3	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	151.17 X 151.40 X 151.90	22888	8.159	562.7	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07 **Date: 03/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	149.96 X 150.36 X 151.04	22548	8.722	757.8	33.6	33.2
2	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	150.25 X 151.50 X 150.90	22763	8.375	731.5	32.1	
3	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	149.64 X 150.60 X 150.29	22536	8.525	764.1	33.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07

Date: 13/09/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	150.02 X 149.20 X 149.01	22383	8.804	576.9	25.8	25.4
2	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	150.29 X 150.90 X 151.11	22679	8.945	598.5	26.4	
3	Cement Concrete Pavement	M30	05/09/2019	13/09/2019	151.20 X 151.98 X 149.98	22979	8.159	554.1	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-07-07

Date: 03/10/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilayn, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	150.48 X 151.70 X 150.82	22828	8.722	764.8	33.5	33.3
2	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	151.91 X 149.27 X 150.09	22676	8.375	738.4	32.6	
3	Cement Concrete Pavement	M30	05/09/2019	03/10/2019	151.27 X 149.12 X 149.23	22558	8.525	760.0	33.7	

Note:

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-11-07-07** **Date: 12-10-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-19
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-10-19
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-11-07-07** **Date: 12-10-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-10-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2019-11-07-07 **Date: 12-10-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-10-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2019-11-07-07**
		Date: 22-10-19
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-10-19
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	21-10-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	246	Min. 220°C
	Fire point, °C	272	

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-11-07-07**	**Date: 02-11-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.	
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.	
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-10-19	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of test	:	30-10-19	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	CP-RW-2019-11-07-07	Date: 02-11-19
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.	
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.	
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-10-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	30-10-19	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-11-07-07 **Date: 02-11-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-5, Includes 3 Works of Rs.100.00 Lakhs.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer Reference : BBMP/EE/BTP/WO/217/2018-19

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 30-10-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 30-10-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2019-11-07-07**	**Date: 08-11-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.	
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.	
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	05-11-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	05-11-19	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.8
4	Average percentage	%	5.7	

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Lab ID : CP-RW-2019-11-07-07

Date: 08-11-19

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	50	447	94.9	5.1	4-10

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2019-11-07-07** **Date: 06-11-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-5, Includes 3 Works of Rs.100.00 Lakhs.
Agency	:	Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/217/2018-19
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-19
Type of Mix	:	Tack coat
Date of test	:	05-11-19

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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